

RM31E SERIES PF1.0 Power range: 6kVA~10kVA

3:1 **1:1**



Features:

- LCD supports Rack/Tower convertible design
- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with DSP control
- Input current harmonic: <3%
- Optimization battery group, the quantity of battery: 16/18/20pcs (32~40pcs)
- Wide input voltage range: 208~478Vac
- Wide input frequency range: 40~70Hz
- Dual input source
- Support 3/1 and 1/1 operation
- Generator compatible
- ECO mode operation for energy saving
- Cold start function
- Intelligent fan speed regulation
- Self-testing when UPS startup
- 50/60Hz frequency converter mode
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Multiple communication interface: RS232/RS485/EPO/Output port/Maintain-AUXSWS port (Relay card/SNMP card/BMS optional)
- PDU with maintenance bypass switch (Optional)



ON LINE



TowerRack



DATACENTRE



SOHO



E-MEDICAL



INDUSTRY



TRANSPORT



EMERGENCY

RM31E RT Convertible Double Conversion On-Line UPS

RM31E RT 6K | RM31E RT 10K

RM31E Technical Specifications:

		RM31E	
Model		RM31E RT 6k	RM31E RT 10k
Capacity		6kVA/6kW	10kVA/10kW
INPUT			
Nominal voltage		380/400/415Vac (3PH+N+PE) 220/230/240Vac (L+N+PE)	
Operating voltage range		208~478Vac; 120~270Vac	
Operating frequency range		40~70Hz (50/60Hz Auto-Sensing)	
Power factor		≥0.99	
Harmonic distortion (THDi)		≤3% Linear load	
Bypass voltage range		Max.voltage: 220V: +25% (Optional +10%, +15%, +20%) 230V: +20% (Optional +10%, +15%) 240V: +15% (Optional +10%) Min.voltage: -45% (Optional -10%, -20%, -30%)	
FREQUENCY			
Frequency protection range		50/60Hz±10%	
OUTPUT			
Output voltage		220/230/240Vac (L+N+PE)	
Voltage regulation		±1%	
Power factor		1.0	
Output frequency	Line mode	±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional)	
	Bat. mode	(50/60±0.1%)Hz	
Transfer time	AC mode to Bat.mode	0ms	
	Inverter to Bypass	0ms	
Output waveform		Pure Sinewave	
Crest factor		3:1	
Harmonic distortion (THDv)		≤2% Linear load ≤5% Non linear load	
Overload	AC mode	Load≤110%: last 60min; ≤125%: last 10min; ≤150%: last 1min; ≥150%: turn to bypass mode immediately	
	Bat.mode	Load≤110%: last 10min; ≤125%: last 1min; ≤150%: last 5s; ≥150%: shut down UPS immediately	
	Bypass mode	Breaker (Load<125%, long-term operation)	
EFFICIENCY			
Efficiency		up to 93.5%	
BATTERY			
Battery voltage		±96/±108/±120Vdc (16/18/20pcs optional); (16pcs default, 20pcs no power derating; 18pcs output power factor 0.9; 16pcs output power factor 0.8); ±192/204/216/228/240Vdc (32/34/36/38/40pcs supportable)	
Charging current		12A (Max.)	14A (Max.)
PHYSICAL			
Dimension W×D×H		443×580×131mm (3U)	
Net weight		27kg	28kg
ENVIRONMENTAL			
Operating temperature		0°C~40°C	
Storage temperature		-25°C~55°C	
Humidity range		0~95% (Non condensing)	
Altitude		<1500m, derating required when >1500m	
Noise level		<53dB at 1 Meter	<55dB at 1 Meter
STANDARDS			
Safety		IEC/EN 62040-1, IEC/EN 62477-1	
EMC		IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)	

- Specifications are subject to change without prior notice.
 - Data above are typical values for reference only, not as a basis for engineering design.
- *PF=0.9 models also available

RC 6-10kVA battery pack specification

Rack Cabinet	
Model	RC20120N
BATTERY SYSTEM	
Battery type	VRLA (Lead acid maintenance free battery)
Typical battery recharging time	6~8 hours (To 90% of full capacity)
Typical battery life	3~5 years, depend on discharging cycle and ambient temperature
System voltage	±120Vdc
Battery quantity	1×20 PCS
Capacity	7Ah/9Ah (12V)
PHYSICAL	
Dimension W×D×H	443×720×131mm (3U)
Net weight	58kg/63kg
ENVIRONMENT	
Safety	CE
Operating environment	0°C~40°C
Relative humidity	0~95% (Non condensing)
Noise level	<40dB at 1 Meter

Specifications are subject to change without prior notice.

Remark: RC20120N; "RC" means Rack Cabinet; "20" means battery number inside the Rack;
"120" means the battery system voltage; "N" means battery with neutral connection.

Rack Cabinet	
Model	RC40120N
BATTERY SYSTEM	
Battery type	VRLA (Lead acid maintenance free battery)
Typical battery recharging time	6~8 hours (To 90% of full capacity)
Typical battery life	3~5 years, depend on discharging cycle and ambient temperature
System voltage	±120Vdc
Battery quantity	2×20 PCS
Capacity	7Ah/9Ah (12V)
PHYSICAL	
Dimension W×D×H	482×861.5×175mm (4U)
Net weight	138kg/154kg
ENVIRONMENT	
Safety	CE
Operating environment	0°C~40°C
Relative humidity	0~95% (Non condensing)
Noise level	<40dB at 1 Meter

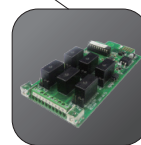
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3. Remark: RC40120N; "RC" means Rack Cabinet; "40" means battery number inside the Rack;
"120" means the battery system voltage; "N" means battery with neutral connection



SNMP



Relay card

ATENCO

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